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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,927	07/03/2007	Roelof Thiewes H	IONE.304US01.1271.1101101 7937	
	7590 03/31/200 SEAGER & TUFTE, L	EXAMINER		
1221 NICOLLE SUITE 800			PRICE, CARL D	
	S, MN 55403-2420		ART UNIT	PAPER NUMBER
			3749	
			MAIL DATE	DELIVERY MODE
			03/31/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/597,927	THIEWES ET AL.			
Office Action Summary	Examiner	Art Unit			
	Carl D. Price	3749			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>08/11</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 14-34 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 14-34 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the oregin and the correction is considered to the constant of the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request that any objection to the constant may not request the constant	vn from consideration. r election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 08/11/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 14 recites the limitation "it". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims Rejected under 35 U.S.C. 102(b)

Claims 14, 16, 26, 27 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by **DE 197 33 768.**

DE 197 33 768 shows and discloses shows a mixing device for mixing gas (12) and combustion air (6) for a gas burner (1), it being possible for a mixture of gas and combustion air that is provided by the mixing device to be fed to the gas burner by means of a blower (2), said mixing device comprising:

a housing (10); and

a venturi nozzle (11), wherein the venturi nozzle is integrated in the housing in such a way that the housing and the venturi nozzle are formed as a monolithic unit; and wherein the monolithic unit forms a flow duct for gas and combustion air, it being

possible for combustion air to be sucked in at an inlet opening of the monolithic unit, the

blower acting at an outlet opening of the monolithic unit, and the blower providing a suction pressure to suck in the mixture of gas and combustion air through the outlet opening.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims Rejected under 35 U.S.C. 103(a)

Claims 20, 21, 22, 23, 24, 25, 29, 30, 32, 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over **DE 197 33 768** in view of **US 3468298 (Teague, Jr. et al)**.

DE 197 33 768 shows and discloses the invention substantially as set forth in the claims with possible exception to:

- a gas regulating device fastened relative to a mixer unit, the gas regulating device including a gas outlet stub that is insertable into a corresponding recess in the monolithic unit

US 3468298 (Teague, Jr. et al) teaches, from applicant's same air and fuel gas mixer field of endeavor, a gas regulating device (5) fastened relative to a mixer unit (107, 109), the gas regulating device including a gas outlet stub (105) that is insertable into a corresponding recess in the monolithic unit. US 3468298 (Teague, Jr. et al) shows the fastening of the gas

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regulating device relative to the monolithic unit includes a sealing element (gaskets and ring seals are shown in figure 2; not referenced).

In regard to claims 20, 21, 22, 23, 24, 25, 29, 30, 32, 33 and 34, for the purpose of providing a suitable gas supply and control means for the fuel gas flow, it would have been obvious to a person having ordinary skill in the art to modify the fuel supply of **DE 197 33 768** to include a flow regulating device including sealing means in the manner set forth in the claims, in view of the teaching of **US 3468298 (Teague, Jr. et al).** In regard to claims 22, 30 and 32, the threaded fasteners (e.g. – 5, and adjacent numeral 7; figure 2) securing the regulator to the housing are deemed the structural and functional equivalent to applicant's only broadly claimed "quick-acting" closure fastener.

In regard to claims 23 and 33, Official Notice is taken that it is known to use quick acting securing clip type conduit flow connectors in the gas burner filed of endeavor for the purpose of easily and readily securing burner feed means. Therefore, in view of that which is well known and for the known purposes, it would have been obvious to a person having ordinary skill in the art to modify **DE 197 33 768** to optionally include a snap clip type fastener to secure the venturi and fuel feed flow connections (see for example: **US 6332773 Kuhn**).

Claims Rejected under 35 U.S.C. 103(a)

Claims 15, 17 and 18 and are rejected under 35 U.S.C. 103(a) as being unpatentable over **DE 197 33 768** in view of **US 2001/0055709 (Sang).**

DE 197 33 768 shows and discloses the invention substantially as set forth in the claims with possible exception to:

- the monolithic unit is formed from plastic.

US 2001/0055709 (Sang) teaches, from applicant's same venturi nozzle field of endeavor, that the production of convergent-divergent nozzles, such as so-called laval or venturi nozzles, usually takes place by machining a blank. Irrespective of the material used, such as metal, ceramic or plastic, the machining of the convergent-divergent flow cross section is very

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laborious. Nozzles made of metal are usually produced by a metal-removing operation by turning or eroding. Nozzles made of ceramic may be produced by powder injection molding or sintering, nozzles made of plastic may be produced by injection molding. Particularly for ceramic and plastic nozzles, a complex mold is necessary for this operation, in order to produce the undercut through the convergent-divergent bore.

In regard to claims 15 and 17, for the purpose of providing a suitable material for forming the venturi, it would have been obvious to a person having ordinary skill in the art to make the **DE 197 33 768** of plastic material, in view of the teaching of **US 2001/0055709 (Sang).** Further, in regard to claims 17 and 18, Official Notice is taken that blower housing are known to be made from metal and to include inlet supporting plates with fasteners, such as threaded bolts, to secure inlet elements thereto (See for example: **US 4830600 (VerShaw et al)**. Therefore, in regard to claims 17 and 18, in view of that which is well known and for the known purpose, it would have been obvious to a person having ordinary skill in the art to provide the blower of **DE 197 33 768** with a metal inlet support plate and "quick" closure fasteners, in the form of threaded bolts.

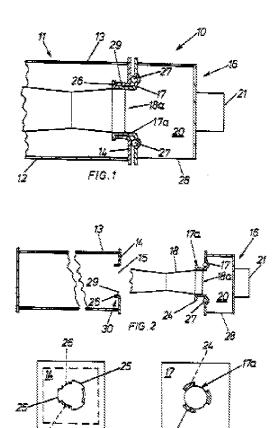
Claims Rejected under 35 U.S.C. 103(a)

Claims 19 and 31 and are rejected under 35 U.S.C. 103(a) as being unpatentable over **DE** 197 33 768 in view of US 2001/0055709 (Sang) or US 3468298 (Teague, Jr. et al), respectively, as applied to claims 18 and 29 above, and further in view of GB 1397536.

DE 197 33 768 shows and discloses the invention substantially as set forth in the claims with possible exception to:

- the quick-acting closure is formed as a bayonet closure.

GB 1397536 teaches, from applicant's same gas mixer burner field of endeavor, that it is known to use bayonet type flow joint fasteners as quick connect joint means (17, 24, 25) in gas mixer burners for securing a venturi mixer housing to further burner components (13). **GB** 1397536 further uses a seal (27).



In regard to claims 19 and 31, for the purpose of providing a suitable alternative readily and selectively operable fluid joint between the venturi hosing and blower housing which requires no tools for operation, it would have been obvious to a person having ordinary skill in the art to provide **DE 197 33 768** with a bayonet and seal type flow joint, in view of the teaching of **GB 1397536**.

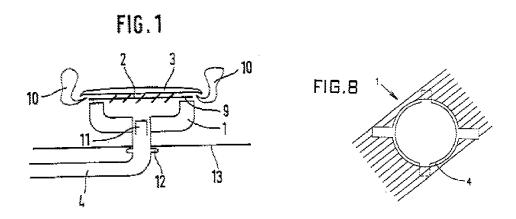
Conclusion

See the attached USPTO for, 892 for prior art made of record and not relied upon which is considered pertinent to applicant's disclosure.

US 5901695 (Deptolla) teaches, from applicant's same gas mixer burner field of endeavor, that it is known to use bayonet type flow joint fasteners as quick connect joint means (figure 8) in gas mixer burners for securing a venturi mixer housing to further burner inlet

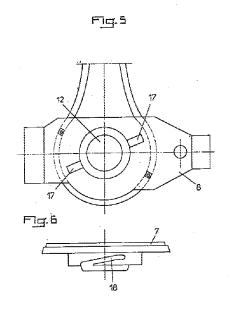
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components (1). In another embodiment (FIG. 8), the burner head 1 can also be fixed by means of an easily detachable connection, e.g. a bayonette closure, on the mixing pipe.



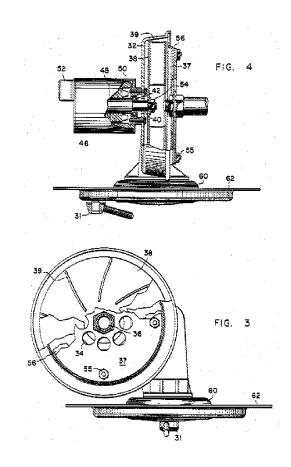
GB 2036295 shows a gas burner comprises a body 1 formed by two sheet metal shells 2, 3, joined together by flanges along their margins and shaped to constitute a body of Venturi tube form with an expansion chamber 5 and a chimney tube 6. A bracket 8 is secured to the base 10 of a cooking apparatus and is provided with a flange 9 to locate the burner body. A burner head 7 extends through a central aperture 12 of the bracket 8, the latter being provided with resilient tongues to engage in oblique slots 18 of the head 7 so that the latter is releasably fastened by means of the bayonet joint type. Screws 15 engage in nuts 14 secured to the bracket 8 in order to hold a dished ring 16 which engages the upper wall 11 of the cooking apparatus housing. An igniter 13 is secured in a hole in the bracket 8. 2030295

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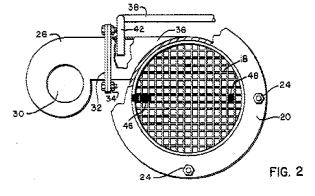


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US 4830600 (VerShaw et al) shows an mounting plate for a fuel supply means (36) with threaded fasteners (55) on a blower.



US 4224019 (Dilmore) shows an mounting plate with threaded fasteners on a blower.



USPTO CUSTOMER CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carl D. Price whose telephone number is (571) 272-4880. The examiner can normally be reached on Monday through Friday between 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven B. McAllister can be reached on (571) 272-6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Carl D. Price/
Primary Examiner, Art Unit 3749